Ministry of Crown Lands

ANNUAL REPORT

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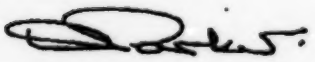
Lieutenant-Governor of British Columbia in Council
Parliament Buildings
Victoria, British Columbia

May It Please Your Honour:

Herewith I respectfully submit the Annual Report of the Ministry of Crown Lands for the fiscal year ended March 31, 1989.



The Honourable Dave Parker
Minister of Crown Lands

The Honourable Dave Parker
Minister of Crown Lands
Parliament Buildings
Victoria, British Columbia

Sir:

I have the honour to submit the Annual Report of the Ministry of Crown Lands for the fiscal year ending March 31, 1989.

E.R. Macgregor
Deputy Minister
Ministry of Crown Lands

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DIRECTIONS

INTRODUCTION

In July 1988 the Ministry of Crown Lands was created by amalgamating the Lands portfolio of the Ministry of Forests and Lands with the Surveys and Resource Mapping Branch of the Ministry of Environment and Parks. This amalgamation acknowledged the important role of Crown Lands in meeting the provincial government's objectives for economic diversification and responsible stewardship.

Crown Land — A Public Resource

Recognition of the need to balance economic development and environmental security to the benefit of all British Columbians underlies the strategy for the administration of Crown land. Covering more than 90 per cent of the province's total land area of nearly 93 million hectares, provincial Crown land holds inestimable value as a public resource — for recreation and resource use as well as for settlement, conservation and other needs.

Highly visible to all British Columbians, Crown land is a heritage bequeathed for our present use and enjoyment as well as a legacy we hold in trust for the future. The responsible management of Crown land concerns all British Columbians and we endeavour not only to make this land available to meet the needs for use and access, but also to keep the public informed of decisions to allocate Crown land. Responsible, accountable management of this resource is a primary objective for the ministry.

The ministry is guided by its mission statement and corporate commitment to:

Serve the people of British Columbia by managing and allocating public land to ensure access for industry, commerce, settlement, recreation and conservation uses in a manner that is sensitive to environmental needs and sustainable development.

We fulfill this mandate through:

An integrated decision-making framework that:

- provides leadership for resolution of land use conflicts;
- ensures access to Crown land for both sustainable development and conservation;
- provides for fair and judicious allocation of land; and
- contributes economic, environmental and social benefits to the Province.

A public land inventory that:

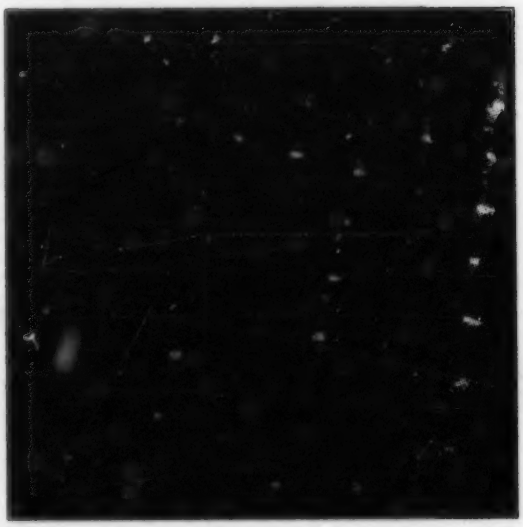
- utilizes state-of-the-art Crown Land information systems and products; and
- is based on a progressive, client-oriented assessment of Crown land assets.

An environment and culture of excellence in which we:

- encourage client consultation in the design and delivery of our products;
- ensure our delivery is timely and efficient, sensitive and courteous;
- share a belief that we can make things happen — the entrepreneurial spirit;
- ensure accountability and decision-making are centralized;
- encourage commitment, pride, participation and open communication;
- establish excellence through recruitment, training, evaluation and planning; and
- recognize and reward achievement.

The Ministry of Crown Lands, through its programs, initiatives and activities, recognizes the value of this vital British Columbia resource and endeavours to practise effective management and responsible stewardship. The ministry prides itself on the professionalism, cooperative spirit and commitment of its staff. Employees share the ministry's mission and corporate commitment. Fundamental to our efforts is the belief that the Crown land resource is essential to economic growth and long-term sustainable development, as well as necessary to support the quality of life of all British Columbians. We are committed to managing this public resource effectively and responsibly, and to developing the necessary policies, practices and technology to ensure the highest possible level of stewardship and wise use today and in the future.

PERFORMANCE



REGIONAL OPERATIONS DIVISION

INTRODUCTION

Crown Lands' regional operations services are delivered under two major program areas — Land Administration, and Development and Marketing — from eight regional offices, each with unique regional priorities and activities.

Goals include:

- Implementing policy consistently and identifying needs for further growth.
- Maintaining Crown land inventory to support land programs and marketing.
- Contributing information to the Crown Land Registry — a record of all surface encumbrances on Crown land.
- Sponsoring and participating in opportunity studies to identify compatible and sustainable uses of Crown land.
- Implementing effective Crown land administration and marketing by liaising with local governments, agencies and client groups, and by promoting the ministry's services at trade shows and other appropriate community events.
- Counselling clients on their land needs, and assisting public and private sector projects through planning and provision.
- Receiving, investigating and adjudicating Land Act applications for Crown land.
- Marketing Crown land through advertised public competitions: public tender, public auction, proposal call, and public lot draw.
- Effectively administering contracts for legal surveys, timber cruises, soil testing, and real estate appraisal.

LAND ADMINISTRATION

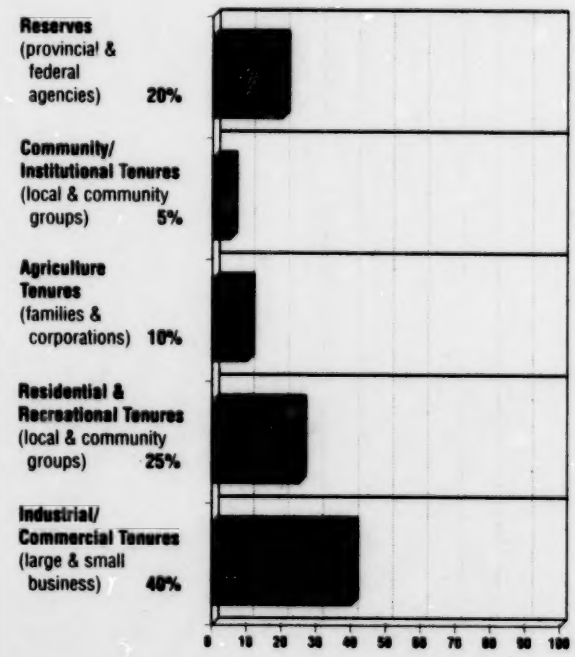
New Crown Land Commitments Excluding Reserves

Figure 1

Fiscal Year	Number	Area (ha)
1982/3	2,160	44,776
1983/4	1,836	40,670
1984/5	2,332	47,616
1985/6	2,212	29,978
1986/7	2,624	30,898
1987/8	2,750	61,285
1988/9	2,914	83,455

Ministry of Crown Lands Clients

Figure 2.


Reserves (provincial & federal agencies) 20%
Community/ Institutional Tenures (local & community groups) 5%
Agriculture Tenures (families & corporations) 10%
Residential & Recreational Tenures (local & community groups) 25%
Industrial/ Commercial Tenures (large & small business) 40%
0 10 20 30 40 50 60 70 80 90 100

The Land Administration Program derives its mandate from the Land Act. This mandate is to allocate and manage Crown land to ensure access to industry, commerce, settlement, recreation and conservation in a manner that is sensitive to the needs for sustainable development and environmental protection. Crown Lands' Land Administration Program directly benefits British Columbians through economic stimulation, diversification and Crown land resource stewardship.

3,471 new Crown land dispositions were made in 1988/89 (Figures 29, 30), exceeding the ministry's target of 2,773 by 25 percent. Administration of Crown land tenures increased from 9,313 transactions in 1987/88 to 11,571 in 1988/89 (Figure 31). The target of 8,075 transactions was exceeded by 33 percent.

Management of the growing Crown land tenure portfolio, combining economic diversification with effective long-term management of Crown land, requires extensive administration — tenure reviews, renewals, replacements, assignments and purchase options.

LAND ADMINISTRATION

The number of applications for Crown land filed with the ministry increased by eight per cent from 4,284 in 1987/88 to 4,636 in 1988/89. The overall increase, with significant variations between programs and regions, reflects provincial economic expansion.

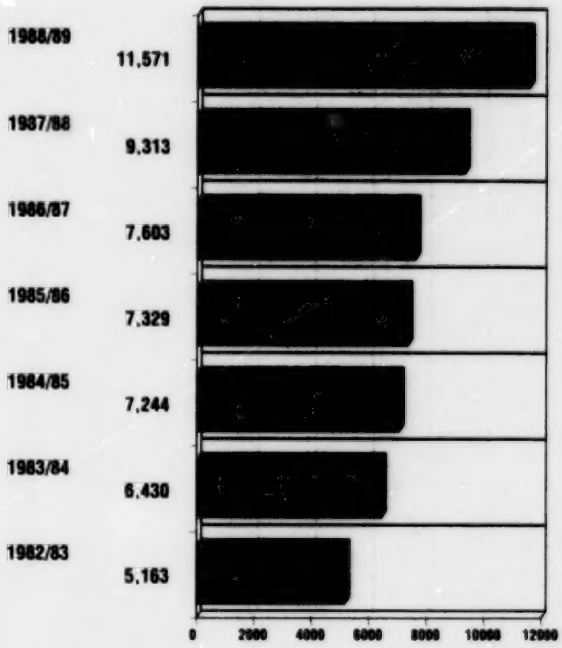
Management of the Crown land tenure portfolio requires a number of administrative tasks including: tenure reviews; renewals; replacements; assignments; and purchase options.

Land is reserved for government agencies with specific responsibilities on Crown land. As of March 31, 1989, reserves accounted for 29 percent of the ministry's tenure portfolio (Figure 34).

It is anticipated that demands on the land administration program will continue to expand in pace with provincial economic growth.

Ministry of Crown Lands Portfolio Management Activities

Figure 3.



SHORELAND SALES PROGRAM

The ministry completed year one of a five-year program to reduce its inventory of 5,800 shoreland residential properties, by offering selected properties for sale to existing leaseholders. The program earned $5.6 million in the first year, exceeding all regional targets and the provincial target of $2.3 million by 150 percent.

1988/89 Shoreland Sales Revenue

Figure 4.

Region	Commercial Industrial (dollars)	Residential Recreational (dollars)	Other (dollars)
Vancouver Island	301,216	166,675	0
Lower Mainland	2,975,800	158,555	0
Thompson-Okanagan	19,016	771,401	0
Kootenay	21,900	456,432	2,316
Cariboo	101,353	307,229	0
Skeena	0	144,850	0
Omineca	24,500	13,492	0
Peace	0	135,257	0
TOTAL	**3,443,785**	**2,153,891**	**2,316**

FREE CROWN GRANT PROGRAM

The ministry with the consent of the Lieutenant Governor in Council makes Crown land available for public purposes at nominal cost to local governments, institutions railways and under certain conditions to Crown corporations. Figure 5 summarizes the 133 free Crown grants issued in 1988/89, including 57 grants to governments and institutions. Figure 6 summarizes the purposes of these institutional grants, which provide an important stimulus to regional and community development.

Free Crown Grants Issued in 1988/89, by Recipient

Figure 5.

Recipient	Number	Area (ha)	Estimated Value (dollars)
Municipalities and Regional Districts	50	1,694.7	6,299,788
Railway Companies	55	114.1	139,690
Provincial Crown Corporations	19	83.4	33,450
Hospitals	5	18.3	11,434,950
Schools	2	2.7	11,200
Miscellaneous	2	3.7	206,700
TOTAL	**133**	**1,916.9**	**18,125,778**

Institutional Free Crown Grants Issued in 1988/89, by Purpose

Figure 6.

Purpose	Number	Area (ha)	Estimated Value (dollars)
Park	21	405.8	3,626,289
Recreation	7	42.4	587,500
Community	5	6.2	525,350
Public Works	5	1,199.1	790,629
Firehall	4	5.0	51,680
Airport	3	23.9	153,300
Cemetery	2	1.0	136,390
Heritage	2	0.4	28,650
Conservation	1	10.9	400,000
Hospital	5	18.3	11,434,950
School	2	2.7	11,200
TOTALS	**57**	**1,715.7**	**17,745,938**

LAND DEVELOPMENT AND MARKETING

The ministry maintains an inventory of lands suitable for marketing and private sector development. As lands are needed, they are brought forward, assessed for suitability, surveyed and appraised. Properties are then listed in the Crown Land Marketing Catalogue and offered for sale through open competition.

If no suitable offer is received through public competition, properties are made available by direct sale until market value is offered.

Agricultural Land Commission Properties Sales and Revenue to March 31, 1989

Figure 7.

Region	Total No. of Properties in inventory	Revenue from sales (dollars)	Lease/Loan Payments (dollars)	Total Revenue (dollars)
Vancouver Island	10	451,855	22,653	**474,508**
Lower Mainland	104	1,623,622	317,984	**1,941,606**
Thompson-Okanagan	4	0	19,801	**19,801**
Kootenay	5	7,000	7,859	**14,859**
Omineca	2	0	2,481	**2,481**
TOTALS	**125**	**2,082,477**	**370,778**	**2,453,255**

Marketing Program Highlights include:

- Sale of over 200 hectares of Crown land for residential development in Vancouver and Nanaimo. These sales alone are expected to return some $38.2 million over the entire period of development.
- Ministry assumed lead role in disposition of other ministries', agencies' and Crown Corporations' surplus lands.
- Addition of 890 surplus properties to the ministry's inventory, valued at $65 million. Includes 342 BCEC properties and 129 leased properties, from the Agricultural Land Commission.
- Agreement reached with CPR gifting 17 railway rights-of-way; 200 parcels valued at $1.1 million; to the Province.
- 1988/89 land sales totalled $20.5 million with most revenue earned through the Development and Marketing program.
- Inventory of properties available for immediate disposition at March 31, 1989, valued in excess of $40 million.

VANCOUVER ISLAND REGION

Aquaculture Activity

Vancouver Island Region manages about three quarters (569 of 792) of B.C.'s aquaculture tenures. 1988/89 saw 182 new tenure applications resulting in a multi-agency study of coastal resources from Tofino to Nootka Sound to determine fish farm development opportunities compatible with other coastal uses.

Nanaimo Residential Development Site Sale

Sale of a 38 ha parcel in Nanaimo for $1.1 million is expected to result in the development of approximately 400 new residential lots over the next few years.

Discovery Harbour Development in Campbell River

A successfully negotiated agreement with the Campbell River Indian Band will result in the development of a $40 million harbour front project in downtown Campbell River, including a new recreational marina, commercial fishing harbour, fish processing facilities, hotel, convention and retail development.

Free Crown Grants

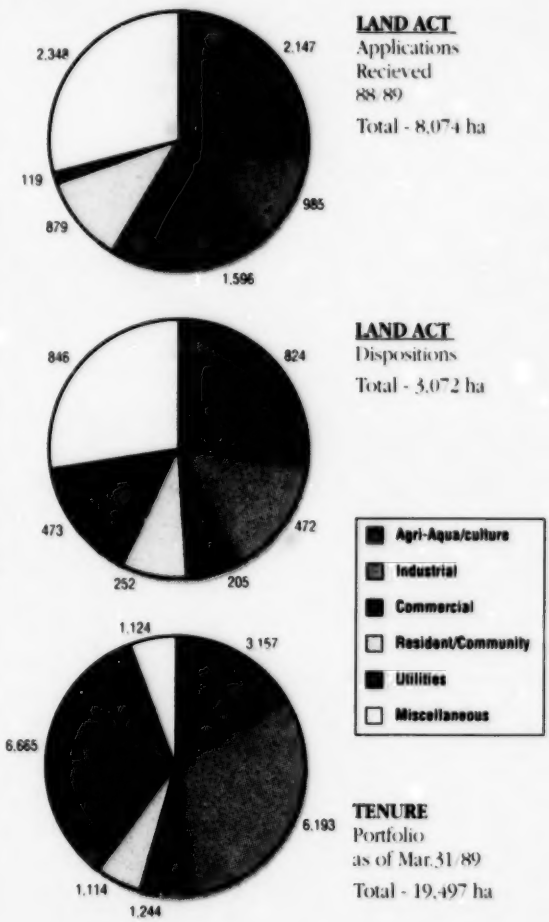
In 1988/89 communities and institutions in the Vancouver Island Region received 15 free Crown grants —173.8 ha— with a value of $2.5 million. The region also transferred administrative control of 12 parcels —58.4 ha— to other provincial ministries and the federal government to assist them in pursuing their mandates.

The region received a total revenue of almost $6.6 million, approximately $1.5 million over the projected target of $5.1 million.

Vancouver Island Region Crown Land Tenure and Application Activity, Not including Reserves

Figure 8.

Area in Hectares



LOWER MAINLAND REGION

Increased activity in the lower Fraser Valley and Whistler is served by the ministry's largest regional real estate development and marketing program, accounting for 43 per cent of the ministry's 1988/89 completed land sales value.

Land Administration

Key activities in the region's land administration program included:

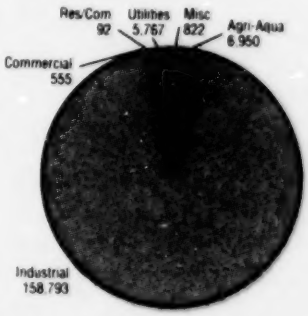
- Receipt of 104 leased agricultural properties from the Ministry of Agriculture and Fisheries;
- Receipt of Roberts Bank property portfolio from the B.C. Enterprise Corporation including 100 leases covering 180 parcels of land producing revenue of about $845,000 per year.
- Review of 55 finfish farms for compliance with terms of tenure.
- Resolution of 16 trespasses in the Whistler area.

Development and Marketing

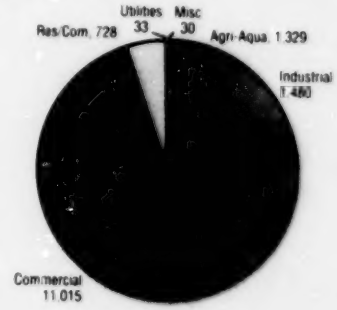
The 1988/89 fiscal year was exceptional for the Development and Marketing Program. The upturn in the Lower Mainland real estate market was a major contributing factor to the successful conclusion of several projects. Agreements for Sale were completed for 157 properties with a market value exceeding $52 million.

Area in Hectares

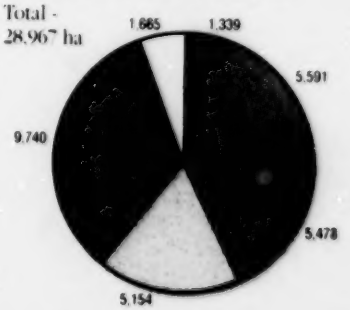
LAND ACT
Applications Recieved 88/89
Total - 172,979 ha

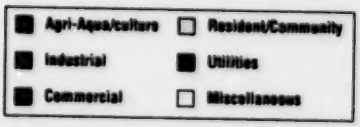


LAND ACT Dispositions
Total - 14,615 ha



TENURE Portfolio as of Mar.31/89
Total - 28,967 ha





Lower Mainland Region Crown Land Tenure and Application Activity, Not including Reserves

Figure 9.

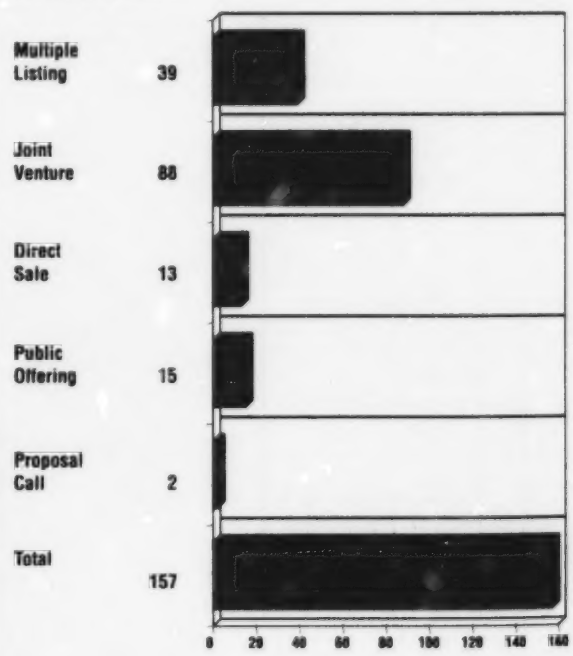
Port Moody Land Sales

A proposal call issued for residential development of 125 ha of Crown land in Port Moody resulted in a sale agreement in December 1988, for staged development of 1,000 residential units and revenue of $20 million over an eight-year period.

Blair Rifle Range

A May 1988 proposal call was issued for development of 42 ha of North Vancouver Crown land, formerly known as the Blair Rifle Range. A March 1989 agreement was completed to develop 350 to 400 residential units on the site, with a guaranteed revenue of $17.1 million over the development period, to be shared by the Ministry of Crown Lands (25%) and the Canadian Mortgage and Housing Corporation (75%).

Lower Mainland Region Agreements for Sale completed in 1988/89, not including Shoreland Properties *Figure 10.*



THOMPSON-OKANAGAN REGION

The Thompson-Okanagan Region has several features that support recreational activity and development. Many programs therefore relate to recreational land use.

Private Moorage

The region continued its program to legalize private moorage structures by:

- Requesting pile drivers to inform their clients of the need to acquire a licence or lease before building a wharf;
- Taking inventory of docks and fills at the north end of Okanagan Lake; and
- Inviting dock owners to apply for Crown land tenures; 103 new private moorage applications were received and 43 new tenures issued.

Natural Boundary Seminar

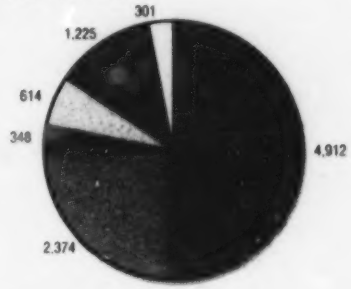
A natural boundary issues seminar sponsored by the Surveyor General Branch and the Thompson-Okanagan Region enabled surveyors and municipal government representatives to discuss complex issues related to waterfront property boundaries.

Ski Hills

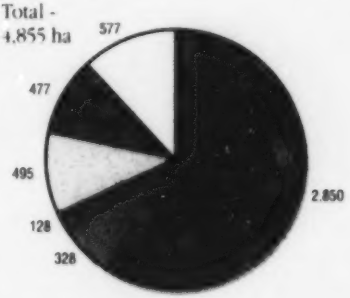
Negotiations with entrepreneurs interested in development and operation agreements for ski hills resulted in Crown lands being made available for residential subdivision and utilities at Tod Mountain and Silver Star ski resorts.

Area in Hectares

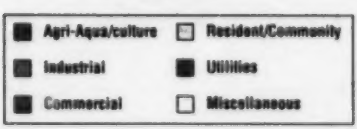
LAND ACT
Applications Recieved 88/89
Total - 9,774 ha



LAND ACT
Dispositions
Total - 4,855 ha



TENURE
Portfolio as of Mar.31/89
Total - 116,707 ha



Thompson-Okanagan Regional Crown Land Tenure and Application Activity, Not including Reserves
Figure 11.

B.C. Telephone Company Fibre Optics System Right-of-Way

B.C. Telephone Company installed a $110 million, 772 km buried fibre optics system from Jasper to Vancouver. The system is part of a national fibre optics network to improve communication services across Canada. To meet national commitments, the region appointed a project coordinator and land officer to coordinate the entire approval process to meet the 1989 completion date. Approvals were required from Crown Lands to obtain rights-of-way over Crown land, and from many federal and provincial agencies to cross streams and rivers, highways, pipelines, powerlines, and other obstacles. Construction of the line has proceeded on schedule, providing economic stimulus to many communities in the interior of B.C.

Development and Marketing

Marketing sales in 14 regional communities under the residential, commercial and agricultural programs were completed.

The region's Development and Marketing Program also made two waterfront parcels, one at Pritchard and one at Osprey Lake, available for public recreational use through the Ministry of Parks.

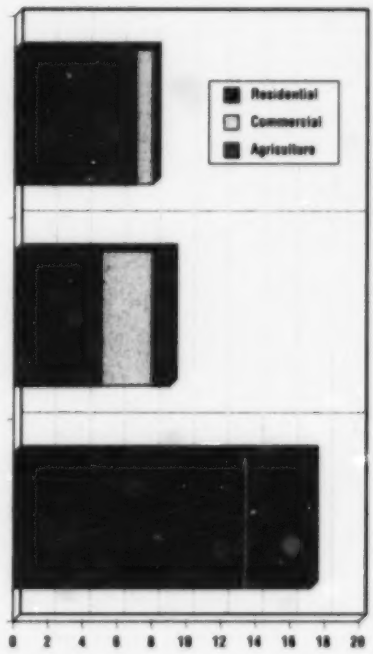
Free Crown Grant Program

14 free Crown grants were issued to Crown corporations, municipalities, regional districts and railways. Grants totalled 44 ha, with an estimated value of $1.9 million.

Thompson-Okanagan Region 1988/89 Marketing Activity

Figure 12.

Number of Properties	
DIRECT SALE	
Residential	7
Commercial	1
Agricultural	0
Total	**8**
PUBLIC TENDER	
Residential	5
Commercial	3
Agricultural	1
Total	**9**
Area (ha)	
Residential	13.20
Commercial	.41
Agricultural	3.56
Total	**17.17**



KOOTENAY REGION

World class recreational resources provide unique opportunities for Kootenay regional development.

Snowbased Commercial Opportunities Study

The region, with the Kootenay Task Force on Parks, Recreation and Tourism, initiated the first of two Kootenay Commercial Winter Recreation Opportunities Studies in 1988/89. A consultant was contracted to review biophysical and socio-economic suitability in the eastern part of the region to identify potential sites for new commercial winter recreation enterprises and assist in meeting the demand for commercial recreation opportunities in a manner compatible with other land uses.

Agricultural Land Commission Ranches

An action strategy has been developed for each of the seven former Land Commission tenures. To date one property has been sold, two are in the process of sale, one is being renegotiated and the remainder are being maintained under the terms of their original agreements.

Development and Marketing Program

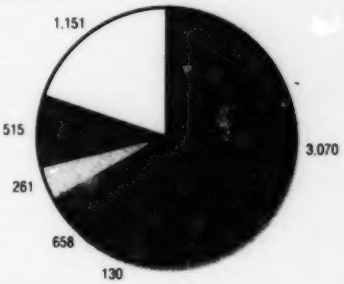
Under its Development and Marketing Program the Kootenay Region sold 28 properties and leased one property, totalling 17.9 ha.

Area in Hectares

LAND ACT

Applications Recieved 88/89

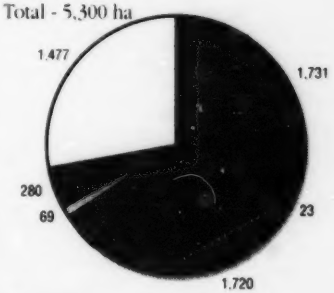
Total - 5,785 ha



LAND ACT

Dispositions

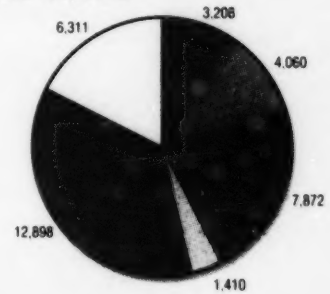
Total - 5,300 ha

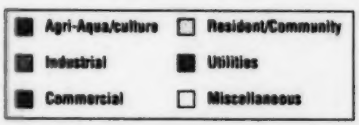


TENURE

Portfolio as of Mar.31/89

Total - 35,759 ha





Kootenay Region Crown Land Tenure and Application Activity, not Including Reserve

Figure 13

Kootenay Region 1988/89 Marketing Sales and Leases

Figure 14

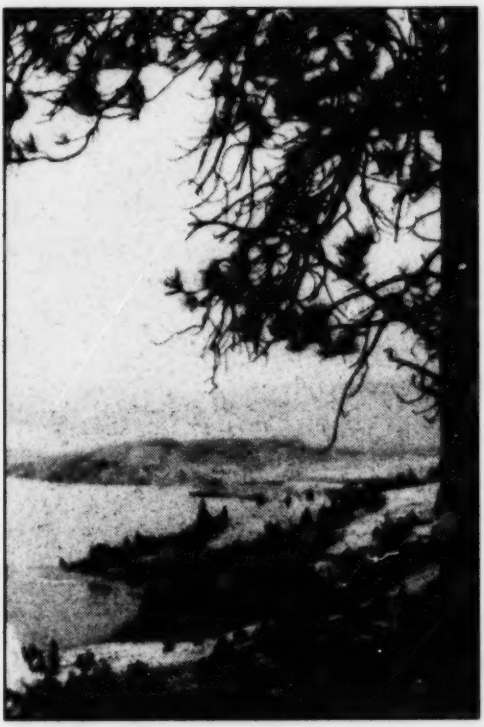
Land Use	Number of Properties
Residential	25
Commercial	2
Recreational	1
TOTAL	**28**

Land Inventory

At year-end, the region had an inventory of 883 land parcels with marketing potential. Available through the Crown Land Marketing Catalogue and the Multiple Listing Service were 176 properties valued at $2 million.

Shoreland Sales

126 offers to shoreland leaseholders resulted in 19 sales, and a revenue of $495,000 — more than triple the revenue target for shoreland sales in this region.



CARIBOO REGION

The Cariboo Region has the largest tenure portfolio, the most shoreland property and the largest volume of administrative responsibilities of all lands regions.

In 1988/89 the region advanced 300 offers of sale to shoreland leaseholders. Revenue targets for all major programs were met and exceeded. Through lot draws and direct sales the marketing unit was able to generate $683,000 in revenue.

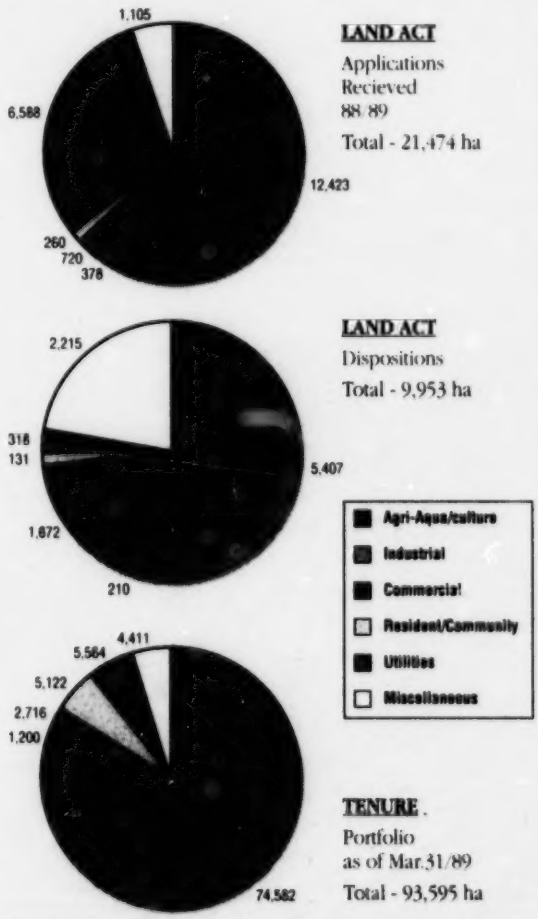
In addition to a substantial number of offers being made to recreational shoreland leaseholders, seven commercial leaseholds were sold.

Local businesses benefitted directly through the awarding of 110 contracts for services including surveys, appraisals and timber cruising.

In Spring 1988 the Mount Timothy Ski Association signed an alpine ski area Master Agreement with the Ministry. This restored alpine skiing as a recreational activity in the southern part of the region.

Cariboo Region Crown Land Tenure and Application Activity, Not Including Reserves *Figure 15.*

Area in Hectares



SKEENA REGION

Land Administration

Comparing land administration activities in 1987/88 and 1988/89, the region experienced a 13 per cent increase in dispositions, a 17 per cent increase in administrative transactions, and a 58 per cent increase in Land Act applications.

Stewart Port Development

A tenure was issued to B.C. Hydro to construct a transmission line between New Aiyansh and Stewart to facilitate the development of new industry in the Stewart area. A tenure was also provided to the District of Stewart to accommodate the handling and shipment of large volumes of logs through the Port of Stewart.

Commercial Fish Guiding Operations

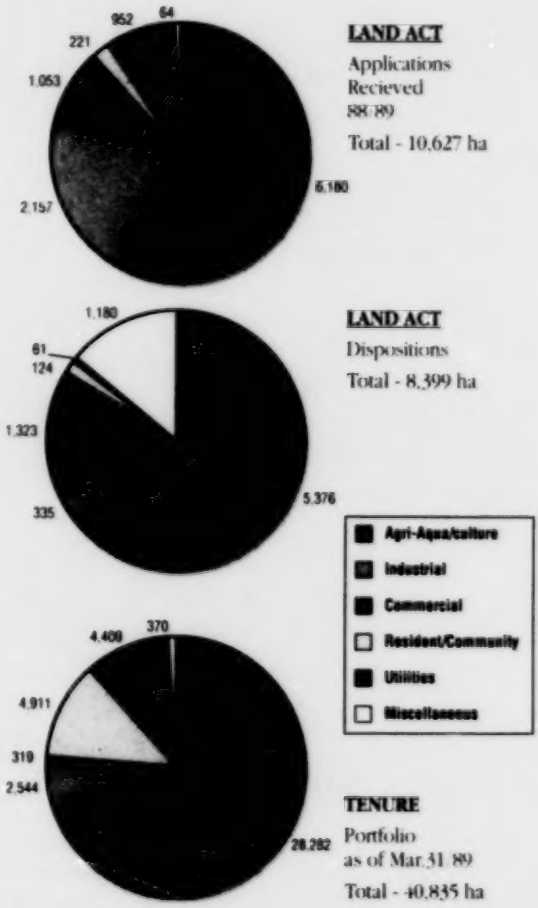
Tenures were provided to Langara Fishing Lodge, North Island Camp and Oak Bay Marina Group for commercial sports fishing operations at Langara Island in the Queen Charlottes.

Development and Marketing

140 residential properties totalling over 18 ha and valued at $1.8 million were disposed of. Six of these properties were leased, the remainder sold. 104 were disposed of through the Crown Land Marketing Catalogue or multiple listing service of the real estate industry. Twenty-nine were sold through public tender, and seven by public lot draws.

Skeena Region Crown Land Tenure and Application Activity, Not Including Reserves *Figure 17.*

Area in Hectares



OMINECA REGION

Highlights of Omineca region activities include:

- Three public auctions offering 18 parcels of agricultural land valued at $667,000 were held in McBride, Prince George and Vanderhoof.
- Crown land leased to the Robson Valley Power Corporation for a powerhouse and transformer station on Ptarmigan Creek will result in hydro electric power for sale to B.C. Hydro. This agreement is the first in a new program designed to encourage small independent power producers.
- A temporary licence of occupation was provided for construction of housing for the Ingenika Indian Band near the Mesilinka River north of the District of Mackenzie. 1200 hectares of Crown land will be provided for a permanent location to replace reserve lands lost when Williston Lake was flooded in 1968.
- A licence of occupation was issued over a portion of B.C. Rail line known as the Takla extension. The licence will permit B.C. Rail to sublease this to Prince George Wood Preserving Ltd., to upgrade the line for eventual removal of over one million cubic metres of wood each year.
- A study in the Hixon Strathnaver area identified large areas of arable land. Ten agricultural Crown land leases were subsequently provided to local farmers.

Development and Marketing

This program achieved 52 sales and 39 leases of Crown land in 1988/89. The Marketing Program sold or leased lands totalling 4,353 ha and valued at $1.8 million.

Free Crown Grants

Highlights of the region's free Crown grant program were:

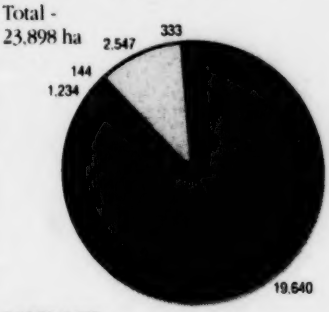
- Regional District of Fraser-Fort George received 2.2 ha for a fire hall;
- Village of Fort St. James received 0.2 ha for community hall and ball diamond;
- District of Vanderhoof received 33.7 ha for community centre, park and recreational area.

Area in Hectares

LAND ACT

Applications Received 88/89

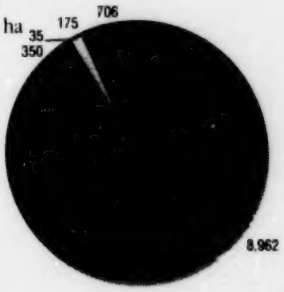
Total - 23,898 ha



LAND ACT

Dispositions

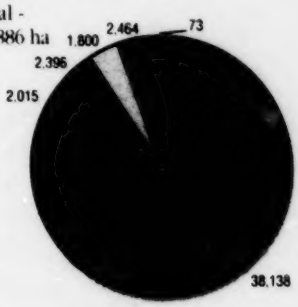
Total - 10,228 ha

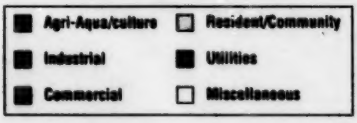


TENURE

Portfolio as of Mar.31/89

Total - 46,886 ha





Omineca Region Crown Land Tenure and Application Activity, Not Including Reserves

Figure 18.

PEACE REGION

The Peace region encompasses 19 million hectares of land, and has more area committed to Crown land tenures and more tenures committed to extensive agricultural, industrial and utility land uses than any other region. Highlights for the year include:

Shoreland Sales

48 offers of sale were advanced to shoreland leaseholders, resulting in 22 direct sales.

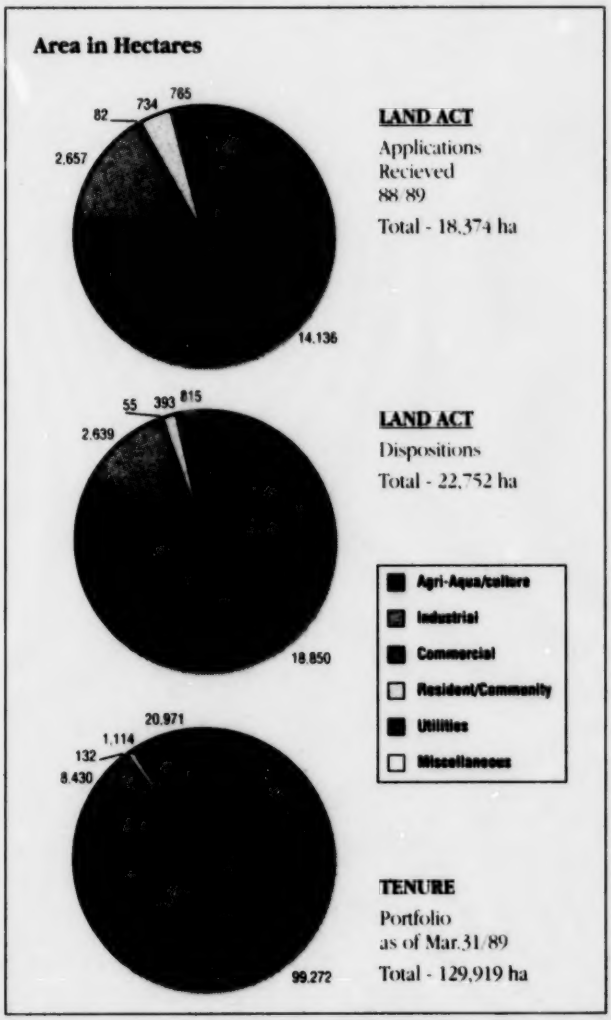
Free Crown Grants

The region issued two free Crown grants to the Peace Regional District. One is a recreational beach on the Beatton River with a long history of public use. The other is a site for the Cache Creek community hall and associated facilities.

Peace Region 1988/89 Marketing Sales and Leases

Figure 19

Type of Disposition	Method	Number	Area (ha)
lease/purchase	auction	28	4,158.0
lease	lot draw	1	.2
direct sale	tender	3	44.2
direct sale	offer to purchase	48	60.6
TOTALS		**80**	**4,263.0**

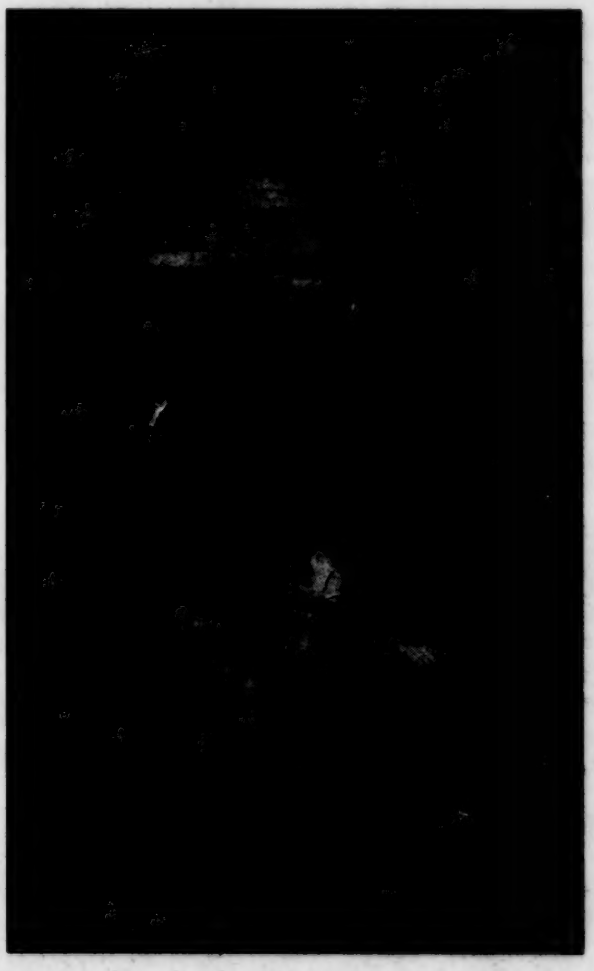


Peace Region Crown Land Tenure and Application Activity, Not Including Reserves

Figure 20.

LANDS SERVICES DIVISION

Lands Services consists of five headquarter branches providing support to regional operations of the ministry and a range of other clients in government and the private sector.



LAND POLICY

Formulation of new policy is essential to effective land administration.

Several important directions for Crown Lands were established in 1988/89 including:

- **Crown Land Account restructuring** — this account provides unified accounting for revenues and expenditures for administration, management and Crown land marketing. A five-year plan was developed to make the account more responsive to the ministry's regional operations needs.
- **Shoreland Sales Program** — agreements were completed with the Ministries of Health, Environment and Forests regarding qualifications for purchase of shoreland property by existing leaseholders, and for protection of surrounding areas. Pricing policy and revenue targets were established for the sale of qualified properties.
- **Commercial Outdoor Recreation** — The ministry prepared policy to guide rapid growth in outdoor recreation, such as hut-to-hut skiing, snowmobiling, ski-touring, and heli-hiking. Objectives are to attract rural growth and diversification, ensure a fair return for the Province, encourage integrated land use, and protect public access.
- **Commercial Mechanized Ski-guiding** — the policy on commercial mechanized ski-guiding was revised to provide licensing of geographic areas, mid-term tenure replacement, and fees based on ski activity.
- **Support for regionalization** — the ministry participated in a government review to determine services best delivered on a regional basis, and to make recommendations to Cabinet for the strengthening of the regionalization process.
- **Development of automated documents** — A pilot project was successfully tested in 1988/89 — pre-printed tenure documents are being replaced with an automated documentation system to improve productivity and quality control. The system will improve service to regional clients throughout the province.
- **Agriculture Program Review** — the ministry's role in future agricultural development will be reviewed by an independent commission of inquiry.
- **Native Lands Issues** — Crown Lands is assisting Native Affairs in negotiating claims of lands cut off from allotted Indian reserves as a result of the 1912 McKenna-McBride Agreement and the subsequent Royal Commission on B.C. Indian Affairs. During the year, agreements were completed on cut-off claims of the Capilano and Ulkatcho Bands. An exchange agreement was concluded with the Trembleur Band.
- **Aquaculture** — the aquaculture policy was revised to consolidate all types of aquaculture under a single policy. The 1986 B.C. Finfish Aquaculture Inquiry by David Gillespie had resulted in a separate policy for fish farms. New development plans were prepared for shellfish and marine plant aquaculture along with a revised development plan for finfish aquaculture. The ministry cooperated with the Ombudsman in his review of aquaculture.
- **Local government harbour administration** — the Branch completed a review of an increased role by local government in harbour administration. The results of the review are being included in the development of a provincial ports policy by the Ministry of Transportation and Highways.
- **Mineral Tenure Act** — Crown Lands participated with the Ministry of Energy, Mines and Petroleum Resources to revise and update legislation with respect to the administration of mineral substances. The authority for the use of certain industrial materials was transferred from the Land Act to the new Mineral Tenure Act, providing industry with clear provincial guidelines and a single authority responsible for the removal of industrial materials.

REAL ESTATE SERVICES

The value of Crown land for economic and regional diversification and growth increased significantly in 1988/89. Increasing demands were placed on the realty services provided to other ministries, Crown agencies and private sector companies.

Among its realty services, the ministry acquires land and timber on behalf of the Crown through purchase, gifting and exchange. It manages the exchange of forest land between the Crown and forest companies and acquires land for a variety of government programs and uses, such as provincial and national parks, ecological reserves, social housing and historic sites. Achievements in 1988/89 included:

- Acquired 13 properties valued in excess of $1 million for provincial parks.
- Acquired 2 properties for Pacific Rim National Park. All lands within park boundaries were transferred to Parks Canada. Land assembly for Pacific Rim National Park is expected to be finalized within the next few years.
- South Moresby National Park federal, provincial and forest company compensation negotiations underway.
- Finalized agreement with Canadian Pacific Railway to acquire 17 rural rights-of-way in exchange for tax credits. 200 parcels are involved, valued at $1.7 million.
- Completed 6 major land and timber exchanges valued at $145 million. Exchange sites were related to Strathcona Park, Whistler Townsite, Tahsish Kwois, Alberni Airport, Moresby Island, and Artish Drainage on Vancouver Island.
- Acquired, on behalf of the Ministry of Social Services and Housing, 34 properties valued at $12.5 million for social housing projects.
- Finalized the Municipal Loan Repayment Initiative under which 19 agreements with B.C. municipalities were renegotiated and 643 residential building lots acquired.
- Published two editions of the Crown Land Marketing Catalogue listing properties for sale, and circulated them to government offices and libraries across the province.
- Produced a Crown land marketing video as a tool for communicating marketing policy to government agencies with whom the ministry does business.

SURVEYOR GENERAL

The goals of the Surveyor General Branch are derived from its responsibility to maintain the province's land survey systems and Crown Land Registry.

In managing British Columbia's land survey systems, the Surveyor General:

- issues survey instructions to all B.C. land surveyors conducting surveys of Crown lands, including surveys contracted by the ministry;
- examines survey returns to ensure they conform with instructions;
- maintains legal survey standards in the province by drafting and enforcing regulations according to legislation;
- provides counsel to ministries, B.C. land surveyors and the public on issues relating to legal boundary surveys ; and
- serves as Boundary Commissioner for British Columbia under the Boundary Act.

The Crown Land Registry records legal interests in Crown land and is a responsibility of the Surveyor General. Maintenance of the registry includes:

- providing a complete, official record of all Crown land surface rights other than those associated with mineral rights;
- developing a state-of-the-art information system based on the automated Crown Land Registry information system, with textual and graphic capability; and
- making information from the Crown Land Registry information system available to interested public or private agencies.

Statutory Signing Authorities

The Surveyor General is a required signatory on many government and cabinet documents. Statutory signing authorities require the following duties:

- **Land Title Act:** approved two explanatory plans and 23 orders involving 870 lots.
- **Land Act:** signed 14 plans for public roads to private subdivisions on Crown land.
- **Land Survey Act:** issued 746 sets of survey instructions to private surveyors and 199 sets for ministry contract surveys.
- **Land Act** and **Land Title Act**: adjudicated 39 accretion and natural boundary applications and endorsed 34 plans establishing new accretion boundaries; received 11 applications and endorsed 4 plans respecting inclusions of roads or bodies of water within a subdivision.
- **Other Statutes:** confirmed or approved 1,284 plans under the Land Act, Land Title Act, Mineral Act and Petroleum and Natural Gas Act.

Survey Field Operations, Verification and Control

In fulfilment of its mandate, the Surveyor General Branch:

- completed 20 field assignments;
- inspected 11 natural boundary applications,
- conducted a Land Act survey at Zeballos and a Land Title Act survey at Victoria;
- conducted 17 field audits,
- completed 1 survey evidence report, and
- conducted 4 inspection surveys.

The branch examines and verifies survey plans, compiles and drafts Land Act and Land Title Act plans, researches and interprets official plans and related land records, and prepares survey regulations.

Crown Land Registry

The Crown Land Registry is maintained both manually and in an automated environment. For purposes of this report, activity with regard to the graphic and textual components of the registry are treated separately.

Activities with respect to graphic information in the Crown Land Registry are:

- **Automation of Official Survey Plans** — the branch is improving its ability to record, edit and file surveys by electronic means and plan information from private surveyors. By fiscal year end, a plan for field and production testing involving private survey firms was developed. It will be implemented in 1989/90.
- **Reference Map Production** — 3,446 updates were performed on 898 map sheets at 1:20,000 scale. As of March 31, 1989, the average age of reference maps was 9 months, and all maps prepared prior to July 1987 were updated. Automated reference map inventory increased by 519.

Crown Grants Issued In 1988/89

Figure 21.

TYPE/RECIPIENT	NUMBER	HECTARES
Land Sales	430	11,872
Marketing Program Grants	291	1,239
Land Exchanges	7	112
Raised Title	7	760
Free Crown Grants	133	1,917
Total	**868**	**15,900**

- **Georeferencing** — development of georeferencing software and mapping standards was completed in 1988. Georeferencing creates an electronic connection between land parcels on a reference map and corresponding status or tenure information stored in the textual records of the Crown Land Registry. Reference maps created after December 31, 1988 have been georeferenced.

Maintenance and enhancement of Crown Land Registry textual records involved:

- A 100 percent verification of all data entries to the Crown Land Registry regarding status of Land Act applications and tenures showed errors were well within the required limits.
- Latitude and longitude mapping values for all surveyed primary parcels except Vancouver Island's, and all unsurveyed primary parcels with active tenures, were entered into the Crown Land Registry. 94,000 primary parcels were updated. This project is key to achieving the georeferencing of textual and graphic data and supports the ministry's strategy to introduce automated statusing, which will provide significant benefits to ministry clients.

Crown Grants

The ministry's Shoreland Sales Program was largely responsible for a 55 percent increase in Crown grant conveyances, from 559 in 1987/88 to 868 in 1988/89. Figure 21 summarizes all Crown grants issued by the ministry in 1988/89. See also Figure 5 which summarizes the distribution of the 133 free Crown Grants included among the Crown grants issued by this ministry.

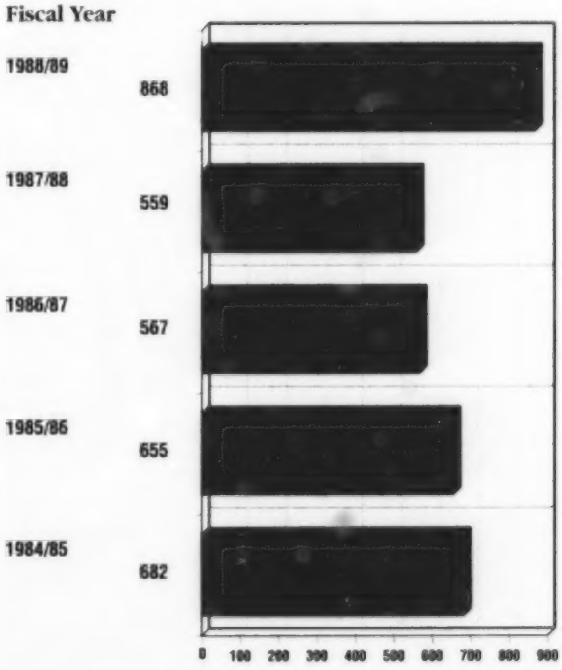
Other Services

Based on the ministry's policy of public and agency access to current and historic Crown land records, 1,191 survey information requests and 26 requests for certified lease documents were processed. Support services totalling 1,535 hours of research and document handling were extended to the Ministry of Attorney General on matters relating to native claims for aboriginal rights and title.

Significant land status projects occupying 1,270 staff hours were completed for other ministries, including the Ministry of Energy, Mines and Petroleum Resources and the Ministry of Environment.

Under the guidance of the inter-agency Land Information Strategic Committee (LISC), the Surveyor General Branch has worked closely with the Surveys and Resource Mapping Branch on projects related to the consolidation of government mapping and the development of mapping standards. The branch cooperated with other agencies to develop agreements and procedures related to databases.

Number of Crown Grants Issued from 1984/85 to 1988/89 *Figure 22.*



SURVEYS AND RESOURCE MAPPING

The Surveys and Resource Mapping Branch provides base mapping, biophysical resource mapping and survey control to meet the economic and resource management needs of government agencies and the public. In 1988/89, the program committed over 40 percent of its budget to develop new systems and technology to manage land information and to keep pace with recent changes in remote sensing, survey control and georeferencing.

A Year of Change

The branch was restructured to meet the need to consolidate government mapping services under one management.
The ministry developed a five-year strategy to:

- eliminate duplication of mapping functions within government;
- clarify internal lines of accountability; and
- improve technical efficiency.

Aerial Photography

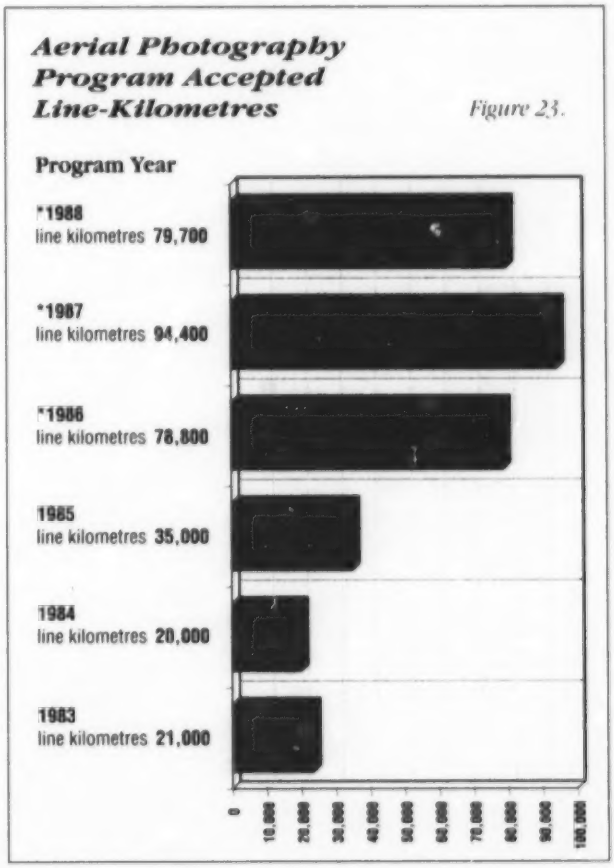
The ministry provides aerial photography for other government agencies. Over 90 percent of requests come from the Ministry of Forests to support its silviculture, protection, and inventory programs. Requests are made for various scales, in colour, black & white, or infra-red, depending on the need.

Requests were received for 67,219 line-kilometres of photographs, and 57,438 line-kilometres were flown, for an 85 percent program completion rate.

The total expenditure for the 1988/89 aerial photography program was $1,834,664. Recoveries from government and private sector clients totalled $1,830,027.

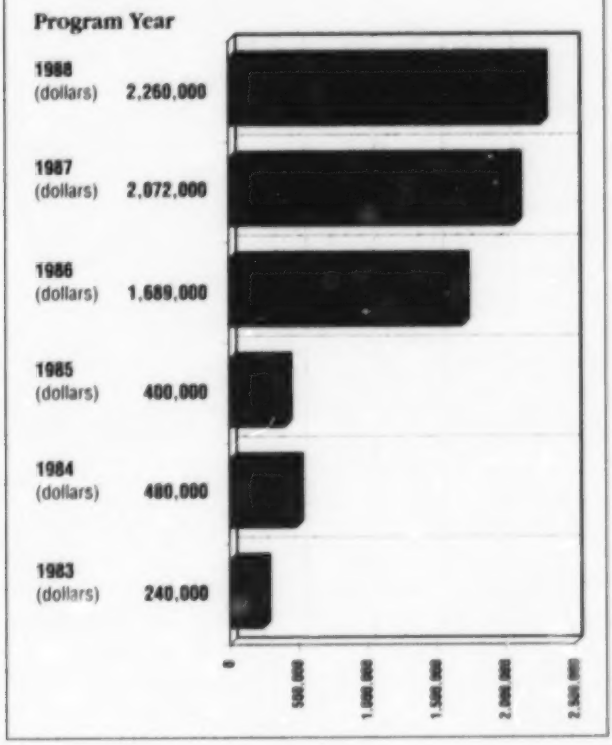
Aerial Photography Program Accepted Line-Kilometres

Figure 23.



*Note:
Aerial photograph values for 1986-1988 include photographs for the Terrain Resource Information Mapping Project (TRIM).

Aerial Photography Program 1983-1988 Contract Value *Figure 24.*



Note: Aerial photograph values for 1986-1988 include photographs for the Terrain Resource Information Mapping Project (TRIM).

Mapping Coordinates and Survey Control

Survey control contracts of $331,705 were let for five mapping projects, on a 1:5,000 scale. The contracts were largely floodplain maps for the communities of Princeton-Hedley, Keremeos, Salmo, Kettle River and Nicomekl-Serpentine. Contract costs of $250,000 were recovered as part of the federal-provincial Floodplain Mapping Program. Four integrated areas were surveyed at a cost of $203,180.

A calibration baseline for electronic distance measuring (EDM) instruments was constructed in Surrey. These are a series of markers that enable land surveyors to calibrate laser-equipped EDM survey instruments. The cost of this project was shared with the Municipality of Surrey.

A GPS survey of 190 survey markers was established in 1988 under the TRIM 1:20,000 mapping program. The branch identified the need for a Global Positioning System (GPS) basenet to provide a means of calibrating GPS equipment and checking GPS software. This is a network of survey control points, measured by satellite, to express longitude and latitude. Using GPS, a basenet is created much more quickly than by using conventional survey techniques.

A new data bank for survey control information was designed, built and put into use. The new system provides on-line access for queries, reports and updates.

The Ministry of Crown Lands produced a leaflet on the North American Datum Project (NAD83) for distribution to users of maps and control survey data. British Columbia participates in this international project to correct distortions in the present coordinates for all survey control networks in North and Central America. In 1990 NAD83 will become the official datum for provincial mapping coordinates.

Geodetic surveys, which correct for the curvature of the earth, are based on a mathematical model of the earth's gravity surface, called a geoid. Knowledge of the geoid provides standards for accurate positioning of geographical data. In 1988/89 a geoid for B.C. was computed with the

University of Calgary. The project was funded jointly by the Ministry of Crown Lands and the Geodetic Survey of Canada. The previous model was not sufficiently accurate for the mapping of mountainous areas.

Geographic Information Management

The ministry was challenged in 1988 to develop a centralized management structure for land information, to support the development of new technology. Geographic Information Systems (GIS), are computer systems that enable management and analysis of information that is referenced to geographic location.

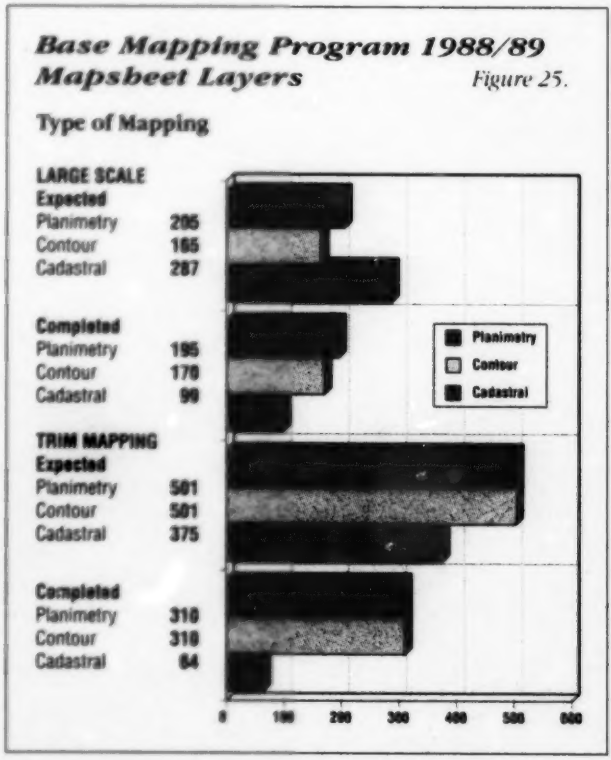
The ministry also established goals for developing a corporate strategy for mapping and land information. Goals include: a corporate framework to enable GIS to evolve within government ministries; set standards for, and secure, baseline data covering the 95 million hectares comprising British Columbia and make them available in standardized digital formats, thus forming a digital atlas of the province. Significant research and development activity was undertaken to create a GIS prototype for the Surveys and Resource Mapping Program. Activities were under-taken to establish specifications, procedures and technology for using and interpreting data in a GIS environment

Baseline Topographic Mapping

The ministry continued to meet the needs of government and private sector clients for topographic mapping. Figure 25 summarizes the 1988/89 production of base maps.

The ministry's strategy in providing digital mapping is to produce mapsheets upon request in a format that will contribute to a British Columbia digital atlas.

Base Mapping Program 1988/89 Mapsheet Layers *Figure 25.*



Terrain Resource Mapping

The largest single baseline data collection of the ministry's mapping program is the Terrain Resource Information Management (TRIM) project. This seven-year, $72 million program is developing a three-dimensional digital model of the entire province in a series of 7,000 digital files or mapsheets, on a 1:20,000 scale. TRIM data will meet national and international GIS standards for versatility and accuracy.

The 1988-89 fiscal year produced a number of significant results for the TRIM program. The remaining 22,245 km of high-level photography for the province was completed. Field control for the Queen Charlotte Islands and portions of the North Coast, Nechako, Cariboo and Okanagan Development Regions were concluded.

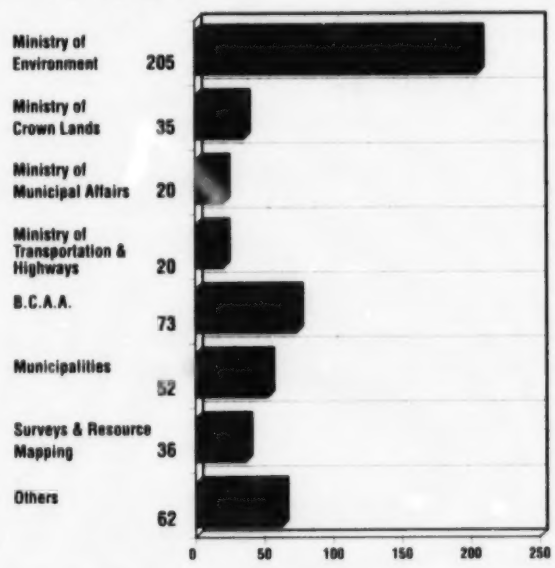
Large Scale Mapping

Large scale mapping employed government and private sector skills to meet the needs of a variety of client agencies (see Figure 26) for maps at a scale of 1:1000. 195 planimetric, 170 topographic and 99 cadastral mapping layers were produced for various government agencies and municipalities. In support of the federal-provincial mapping agreement, the program also produced 98 floodplain maps and recovered $100,000 of the production costs. The floodplain mapping program is jointly funded by Environment Canada and the Provincial Ministry of Environment.

This year ended a ten-year municipal-provincial cost-share mapping program. The program cost-shared municipal mapping with the City of Prince Rupert and the Regional Districts of Kootenay-Boundary, Sunshine Coast and Fraser-Cheam.

Large Scale Mapsheets Completed

Figure 26.



Watershed Coding Project

The purpose of the project is to provide specific identification numbers for all streams and lakes in the province, available at a scale of 1:50,000. The length of all but the smallest streams is also calculated. There are 109 watersheds in the province, comprising approximately 2,000 mapsheets, of which 1,200 have been completed. Each mapsheet has a database. Clients for the program are the Water Management Branch of the Ministry of Environment and the Ministry of Agriculture and Fisheries. The project is on time and within budget.

Baseline Thematic Mapping

Baseline thematic mapping (BTM) provides information on subjects included in a British Columbia digital atlas. Ministry BTM projects include British Columbia watershed coding, initiation of specifications for receiving BTM information from satellites, and a number of smaller projects. 1,400 thematic maps and graphics were produced in 1988/89.

Biophysical Mapping

The ministry provided computerized analyses of terrain and vegetation data to address wildlife concerns within the Wells Gray and Purcell Provincial Parks. Over 1,100 thematic maps and graphics for 30 projects were produced.

MAPS-B.C. Distribution Totals 1985/6 to 1988/9

Figure 27.

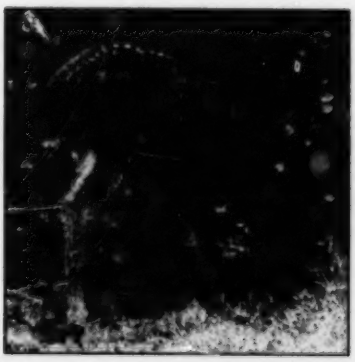
Fiscal Year	Provincial Lithographs	Federal Lithographs	Totals
1988/89	67,009	104,244	191,006**
1987/88	86,078	121,020	226,523**
1986/87	79,868	79,397*	159,265
1985/86	85,785	73,762*	159,547

* MAPS-B.C. was the regional distributor for the Canada Map Office (Federal Lithos).

** These totals include distribution of aeronautical charts in 1987/88 and 1988/89.

Reprographics

The reprographics unit of Surveys and Resource Mapping produces and distributes maps and aerial photographs to government agencies, resource-based industries, mapping companies, and retail outlets across North America and Europe. In B.C., products are available to the public through private vendors, 54 government agents and the Victoria MAPS-B.C. office. 191,006 published lithographic base maps, 308 published lithographic thematic maps, and 1,665 reports were distributed. The reprographics unit also processed 8,700 requisitions for a total of 87,000 whiteprints, 41,000 photographic and 1,296 offset copies. The unit received $399,000 in revenue from map, photographic and report sales.



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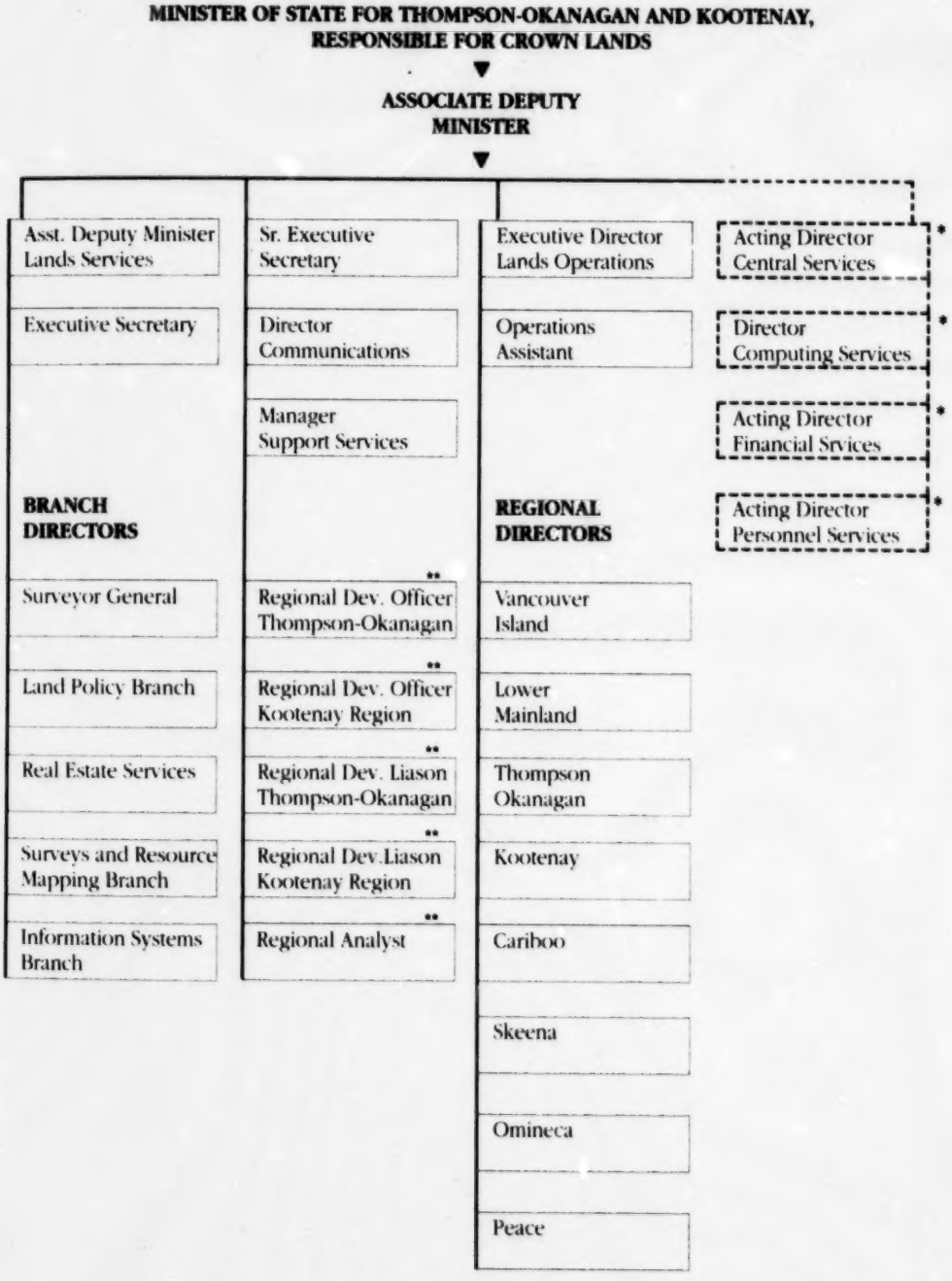
Note: Several changes have been made in the recording of tenure information in the accompanying tables. The changes took effect April 1, 1988, and may affect comparisons with data from 1987/88 or earlier. Contact the Land Policy Branch for further information.

MINISTRY ORGANIZATION as at March 31, 1989



* In 1988/89 the Ministry of Regional Development provided central support services to the Ministry of Crown Lands.

** Activities of the Minister of State for Thompson-Okanagan and Kootenay are reported in the 1988/89 Annual Report of the Ministry of Regional Development

APPENDICES

FINANCIAL HIGHLIGHTS FOR THE FISCAL YEAR ENDING MARCH 31, 1989

(Unaudited)

REVENUE	***($)***	***($)***
Crown Land Account		
Land Sales	20,505,419	
Leases	14,476,013	
Interest	400,680	
Miscellaneous	258,915	
Land Act Fees	118,000	35,759,027
Surveys & Resource Mapping		
Sale of Map & Air Photos	399,886	
Recoveries		
Air Photo Program	1,830,027	
Survey Control	250,000	
Floodplain Mapping	100,000	2,579,913
TOTAL REVENUE		**38,338,940**

EXPENDITURES	*($)*	*($)*
MINISTER'S OFFICE		578*
MINISTRY OPERATIONS		
LAND PROGRAMS		
Associate Deputy Minister	26,764*	
ADM, Land Programs	4,320,775	
Land Policy	867,517	
Real Estate Services	622,407	
Surveyor General	3,032,163	8,869,626
Surveys and Resource Mapping		14,273,413
REGIONAL OPERATIONS		
Executive Director	240,906	
Vancouver Island	945,311	
Lower Mainland	973,474	
Thompson-Okanagan	948,089	
Kootenay	769,699	
Cariboo	913,877	
Skeena	856,369	
Omineca	828,884	
Peace	870,318	7,346,927
"DEVELOPMENT REGIONS		
Thompson-Okanagan	334,905	
Kootenay	389,346	724,251
CROWN LANDS ACCOUNT EXPENDITURES		13,513,113
TOTAL EXPENDITURES		**44,727,908**

* Represents partial year expenditure due to Government Restructuring
**Detailed expenditures of the Minister of State for Thompson-Okanagan and Kootenay are reported in the 1988/89 Annual Report of the Ministry of Regional Development.

LAND ACT TENURES ISSUED IN 1988/89, BY LANDS REGION NUMBER OF TENURES

Figure 28

PROGRAM	Vancouver/ Island	Lower/ Mainland	Thompson/ Okanagan	Kootenay	Cariboo	Skeena	Omineca	Peace	All
LAND									
Extensive Ag.	0	3	1	1	50	13	86	134	288
Intensive Ag.	0	1	3	0	0	0	1	1	6
Grazing	0	0	7	4	11	1	2	2	27
Aquaculture	2	0	0	0	0	0	0	0	2
Industrial	9	9	8	6	1	9	6	374	422
Commercial	24	25	27	28	58	22	14	29	227
Residential	12	55	94	20	149	56	120	3	509
Utility	13	7	54	29	16	8	21	159	307
Community	4	7	19	8	5	3	2	6	54
Institutional	11	10	15	10	7	5	10	15	83
Quarrying	18	13	21	11	33	54	22	67	239
Transportation	22	4	28	4	13	21	34	37	163
Communication	9	10	17	17	11	21	17	14	116
Miscellaneous	43	13	34	12	18	49	14	13	196
LAND TOTAL	**167**	**157**	**328**	**150**	**372**	**262**	**349**	**854**	**2,639**
AQUATIC									
Aquaculture	145	29	0	0	13	12	0	0	199
Industrial	60	57	2	9	11	20	5	0	164
Commercial	62	17	15	4	2	9	1	2	112
Residential	82	32	31	2	4	1	0	0	152
Utility	25	9	26	5	3	2	1	1	72
Community	2	2	2	1	0	0	0	0	7
Institutional	10	7	3	1	0	0	0	0	21
Quarrying	1	4	2	5	0	1	0	0	13
Transportation	23	1	1	2	1	1	0	0	29
Communication	0	0	0	0	0	0	0	0	0
Miscellaneous	36	7	5	1	1	12	1	0	63
AQUATIC TOTAL	**446**	**165**	**87**	**30**	**35**	**58**	**8**	**3**	**832**
GRAND TOTAL	**613**	**322**	**415**	**180**	**407**	**320**	**357**	**857**	**3,471**

Note: Leases, licences, permits, rights of way, transfers and reserves included.

LAND ACT TENURES ISSUED IN 1988/89, BY LANDS REGION AREA IN HECTARES

Figure 29.

PROGRAM	Vancouver/ Island	Lower/ Mainland	Thompson/ Okanagan	Kootenay	Cariboo	Skeena	Omineca	Peace	All
LAND									
Extensive Ag.	0	1,064	161	0	4,040	906	9,093	18,692	33,956
Intensive Ag.	0	7	4	0	0	0	14	24	49
Grazing	0	0	2,683	235	1,629	4	3,530	132	8,213
Aquaculture	12	0	0	0	0	0	0	0	12
Industrial	29	898	300	60	0	98	92	600	2,077
Commercial	154	10,988	105	1,674	1,329	20	35	50	14,355
Residential	2	18	308	15	103	23	32	1	502
Utility	194	6	366	272	36	233	22	701	1,830
Community	217	32	163	81	22	0	4	280	799
Institutional	109	716	446	184	34	22	125	111	1,747
Quarrying	356	162	797	46	733	840	1,077	5,682	9,693
Transportation	250	8	48	6	21	473	736	111	1,653
Communication	7	5	320	38	2	19	5	7	403
Miscellaneous	3,067	81	216,696	3,821	3,503	16,182	40,218	18,065	301,633
LAND TOTAL	**4,397**	**13,985**	**222,397**	**6,432**	**11,452**	**18,820**	**54,983**	**44,456**	**376,922**
AQUATIC									
Aquaculture	811	269	0	0	88	56	0	0	1,224
Industrial	429	704	1	160	127	168	119	0	1,708
Commercial	50	26	12	2	0	9	1	4	104
Residential	9	5	1	0	1	0	0	0	16
Utility	16,098	12	119	3	0	1	0	0	16,233
Community	0	1	28	2	0	0	0	0	31
Institutional	22	75	0	0	0	0	0	0	97
Quarrying	2	9	15	4	0	41	0	0	71
Transportation	652	0	0	1	0	0	0	0	653
Communication	0	0	0	0	0	0	0	0	0
Miscellaneous	2,495	210	63	0	2	47,839	158	0	50,767
AQUATIC TOTAL	**20,568**	**1,311**	**239**	**172**	**218**	**48,114**	**278**	**4**	**70,904**
GRAND TOTAL	**24,965**	**15,296**	**222,636**	**6,604**	**11,670**	**66,934**	**55,261**	**44,460**	**447,826**

Note: Includes leases, licenses, permits, rights-of-way, transfers and reserves.
Totals adjusted to compensate for rounding errors.

CROWN LAND ADMINISTRATIVE TRANSACTIONS BY LANDS REGION COMPLETED IN 1988/89 NUMBERS OF TRANSACTIONS

Figure 30

PROGRAM	Vancouver/ Island	Lower/ Mainland	Thompson/ Okanagan	Kootenay	Cariboo	Skeena	Omineca	Peace	All
UPLAND									
Extensive Ag.	7	100	18	8	175	54	267	405	1,034
Intensive Ag.	2	2	11	2	7	6	1	0	31
Grazing	0	0	123	11	76	28	12	34	284
Aquaculture	2	2	0	0	1	0	0	0	5
Industrial	9	10	22	19	23	16	10	208	317
Commercial	23	25	140	53	56	48	58	22	425
Residential	65	282	1,833	384	678	543	819	67	4,671
Utility	15	47	110	39	56	36	19	292	514
Community	5	12	23	9	14	9	11	5	88
Institutional	15	22	30	17	4	19	10	45	162
Quarrying	10	42	85	79	71	58	82	55	482
Transportation	17	6	29	24	68	43	28	14	229
Communication	13	20	41	40	22	22	16	20	194
Miscellaneous	18	74	151	175	174	183	74	58	907
LAND TOTAL	**201**	**644**	**2,616**	**860**	**1,425**	**1,065**	**1,407**	**1,225**	**9,443**
AQUATIC									
Aquaculture	145	73	0	0	35	7	0	0	260
Industrial	47	150	22	17	30	49	8	0	323
Commercial	49	66	36	8	17	16	5	1	198
Residential	61	186	103	9	2	2	0	0	363
Utility	11	27	26	15	5	3	1	2	90
Community	1	2	0	0	0	3	0	0	6
Institutional	12	14	4	1	0	1	1	0	33
Quarrying	1	2	1	0	3	3	1	1	12
Transportation	17	13	7	11	3	14	8	0	73
Communication	0	0	0	0	0	0	0	0	0
Miscellaneous	27	9	15	10	2	15	10	2	90
AQUATIC TOTAL	**371**	**542**	**214**	**71**	**97**	**113**	**34**	**6**	**1,448**
GRAND TOTAL	**572**	**1,186**	**2,830**	**931**	**1,522**	**1,178**	**1,441**	**1,231**	**10,891**

Note: Purchase Options, Replacements, Reviews, Assignments, Other Administrative Tasks

LAND ACT TENURE AND RESERVE PORTFOLIO AS OF MARCH 31, 1989, BY LANDS REGION NUMBER OF TENURES AND RESERVES

Figure 31

PROGRAM	Vancouver/ Island	Lower/ Mainland	Thompson/ Okanagan	Kootenay	Cariboo	Skeena	Omineca	Peace	All
LAND									
Extensive Ag.	7	98	38	21	403	123	452	517	1,659
Intensive Ag.	1	3	22	6	7	11	3	3	56
Grazing	3	7	265	23	360	87	29	68	842
Aquaculture	4	5	0	0	0	0	0	0	9
Industrial	35	36	32	42	28	46	19	996	1,234
Commercial	85	124	181	154	140	163	142	100	1,089
Residential	262	918	1,489	448	1,793	613	789	100	6,412
Utility	126	241	518	283	221	159	141	980	2,669
Community	36	41	71	50	48	34	40	24	344
Institutional	58	102	120	71	51	74	65	69	610
Quarrying	106	155	337	238	307	294	322	282	2,041
Transportation	163	67	67	83	85	101	57	95	718
Communication	75	92	183	158	99	129	88	95	919
Miscellaneous	261	468	689	622	837	652	244	316	4,089
LAND TOTAL	**1,222**	**2,357**	**4,012**	**2,199**	**4,379**	**2,486**	**2,391**	**3,645**	**22,691**
AQUATIC									
Aquaculture	569	211	0	0	4	8	0	0	792
Industrial	437	402	24	38	49	136	14	1	1,101
Commercial	409	150	68	32	38	60	7	3	767
Residential	401	372	91	35	6	11	1	0	917
Utility	220	125	119	63	14	33	18	5	597
Community	10	10	9	3	1	5	1	1	40
Institutional	65	53	28	6	0	2	5	0	159
Quarrying	4	21	1	1	6	8	4	2	47
Transportation	144	88	21	21	9	43	8	3	337
Communication	0	7	3	0	0	5	0	0	15
Miscellaneous	124	106	58	41	19	72	15	26	461
AQUATIC TOTAL	**2,383**	**1,545**	**422**	**240**	**146**	**383**	**73**	**41**	**5,233**
GRAND TOTAL	**3,605**	**3,902**	**4,434**	**2,439**	**4,525**	**2,869**	**2,464**	**3,686**	**27,924**

Note: Includes leases, licences, permits, rights of way, transfers and reserves.

LAND ACT TENURE AND RESERVE PORTFOLIO AS OF MARCH 31, 1989, BY LANDS REGION AREA IN HECTARES

Figure 32

PROGRAM	Vancouver/ Island	Lower/ Mainland	Thompson/ Okanagan	Kootenay	Cariboo	Skeena	Omineca	Peace	All
LAND									
Extensive Ag.	128	67	1,859	1,585	30,298	6,634	42,426	73,085	**158,082**
Intensive Ag.	7	12	199	98	50	361	32	40	**799**
Grazing	44	24,110	91,193	1,524	64,552	19,583	6,893	188,484	**396,383**
Aquaculture	11	36	0	0	0	0	0	0	**47**
Industrial	617	1,074	4,978	3,546	584	321	5,958	8,108	**25,186**
Commercial	325	19,184	1,575	7,847	2,686	295	2,405	130	**34,447**
Residential	131	692	973	1,003	6,758	249	573	291	**10,670**
Utility	2,758	4,530	11,531	7,940	5,347	3,638	1,567	10,743	**48,054**
Community	403	405	439	398	371	252	379	381	**3,028**
Institutional	358	3,556	1,908	854	318	4,211	1,112	1,605	**13,922**
Quarrying	1,916	4,174	20,322	4,986	11,023	6,564	19,645	13,260	**81,890**
Transportation	1,608	937	365	4,511	739	4,194	1,090	1,435	**14,879**
Communication	108	162	3,525	437	169	246	185	294	**5,126**
Miscellaneous	354,588	40,601	365,342	835,544	153,231	384,684	55,306	144,167	**2,333,463**
LAND TOTAL	**363,002**	**99,540**	**504,209**	**870,273**	**276,126**	**433,232**	**137,571**	**442,023**	**3,125,976**
AQUATIC									
Aquaculture	3,009	1,212	0	0	32	57	0	0	**4,310**
Industrial	6,273	2,842	287	514	7,886	1,879	679	94	**20,454**
Commercial	920	874	50	25	68	103	3	5	**2,048**
Residential	52	49	7	5	6	2	0	0	**121**
Utility	19,702	4,758	836	151	14	364	9	7	**25,841**
Community	10	10	9	4	1	404	0	0	**438**
Institutional	282	1,887	103	25	0	1	3	0	**2,301**
Quarrying	94	112	14	1	6	219	27	151	**624**
Transportation	791	437	13	296	9	184	1	0	**1,731**
Communication	0	447	0	0	0	44	0	0	**491**
Miscellaneous	43,188	37,602	2,142	1,621	653	13,655	663	1,055	**100,579**
AQUATIC TOTAL	**74,321**	**50,230**	**3,461**	**2,642**	**8,675**	**16,912**	**1,385**	**1,312**	**158,938**
GRAND TOTAL	**437,323**	**149,770**	**507,670**	**872,915**	**284,801**	**450,144**	**138,956**	**443,335**	**3,284,914**

Note: Totals adjusted to compensate for rounding errors.

LAND ACT RESERVE PORTFOLIO AS OF MARCH 31, 1989, BY LANDS REGION NUMBER OF RESERVES

Figure 33.

PROGRAM	Vancouver/ Island	Lower/ Mainland	Thompson/ Okanagan	Kootenay	Cariboo	Skeena	Omineca	Peace	All
LAND									
Extensive Ag.	0	1	3	2	13	5	5	1	30
Intensive Ag.	0	0	0	1	2	0	0	0	3
Grazing	0	1	26	1	92	0	3	11	134
Aquaculture	0	1	0	0	0	0	0	0	1
Industrial	1	3	3	9	5	13	4	6	44
Commercial	6	12	33	47	32	53	55	61	299
Residential	1	5	10	94	23	6	14	1	154
Utility	2	1	7	0	2	7	3	6	28
Community	0	1	0	1	1	2	2	3	10
Institutional	3	17	21	14	0	26	10	18	109
Quarrying	67	94	310	216	271	250	294	263	1,765
Transportation	135	53	43	73	63	80	13	81	541
Communication	7	33	37	33	24	36	15	15	200
Miscellaneous	253	464	676	617	829	635	242	316	4,032
LAND TOTAL	**475**	**686**	**1,169**	**1,108**	**1,357**	**1,113**	**660**	**782**	**7,350**
AQUATIC									
Aquaculture	4	4	0	0	0	0	0	0	8
Industrial	27	29	0	1	8	12	0	0	77
Commercial	0	1	0	0	0	3	0	0	4
Residential	0	1	0	0	0	0	0	0	1
Utility	10	1	0	0	0	0	0	0	11
Community	0	0	0	0	0	0	0	0	0
Institutional	7	9	0	0	0	0	0	0	16
Quarrying	3	19	0	0	0	1	2	2	27
Transportation	123	74	17	17	8	36	8	2	285
Communication	0	6	2	0	0	2	0	0	10
Miscellaneous	110	100	45	40	19	69	14	26	423
AQUATIC TOTAL	**284**	**244**	**64**	**58**	**35**	**123**	**24**	**30**	**862**
GRAND TOTAL	**759**	**930**	**1,233**	**1,166**	**1,392**	**1,236**	**684**	**812**	**8,212**

LAND ACT RESERVE PORTFOLIO AS OF MARCH 31, 1989, BY LANDS REGION AREA IN HECTARES

Figure 34

PROGRAM	Vancouver/ Island	Lower/ Mainland	Thompson/ Okanagan	Kootenay	Cariboo	Skeena	Omineca	Peace	All
LAND									
Extensive Ag.	0	0	208	54	3,560	352	618	0	**4,792**
Intensive Ag.	0	0	0	64	25	0	0	0	**89**
Grazing	0	24,056	1,546	380	19,470	0	3,530	162,337	**211,319**
Aquaculture	0	20	0	0	0	0	0	0	**20**
Industrial	400	8	287	2,533	261	163	5,790	4	**9,446**
Commercial	1	14,520	631	301	38	78	12	2	**15,583**
Residential	0	335	485	847	2,332	4	206	65	**4,274**
Utility	10	3	227	0	19	0	0	7	**266**
Community	0	0	0	20	10,632	0	0	11	**10,663**
Institutional	93	1,077	339	307	635	201	60	1,086	**3,798**
Quarrying	1,585	2,079	19,506	4,794	0	5,892	18,481	13,028	**65,365**
Transportation	1,424	873	341	4,455	0	3,907	339	1,327	**12,666**
Communication	1	90	407	346	50	133	16	172	**1,215**
Miscellaneous	353,871	39,926	364,988	835,111	148,820	384,316	55,235	144,167	**2,326,434**
LAND TOTAL	**357,385**	**82,987**	**388,965**	**849,212**	**185,842**	**395,046**	**84,287**	**322,206**	**2,865,930**
AQUATIC									
Aquaculture	42	21	0	0	0	0	0	0	**63**
Industrial	629	419	0	33	7,404	383	0	0	**8,868**
Commercial	0	60	0	0	0	0	0	0	**60**
Residential	0	2	0	0	0	0	0	0	**2**
Utility	16,089	0	0	0	0	0	0	0	**16,089**
Community	0	0	0	0	0	0	0	0	**0**
Institutional	28	30	0	0	0	0	0	0	**58**
Quarrying	92	101	0	0	0	0	22	151	**366**
Transportation	777	123	10	292	8	174	1	0	**1,385**
Communication	0	442	0	0	0	44	0	0	**486**
Miscellaneous	42,781	36,611	1,880	1,620	653	13,652	661	1,055	**98,913**
AQUATIC TOTAL	**60,438**	**37,809**	**1,890**	**1,945**	**8,065**	**14,253**	**684**	**1,206**	**126,290**
GRAND TOTAL	**417,823**	**120,796**	**390,855**	**851,157**	**193,907**	**409,299**	**84,971**	**323,412**	**2,792,220**

Note: Totals adjusted to compensate for rounding errors.